Annual Index of Articles

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The U.S. Department of Health, Education and Welfare released an advisory committee report calling for restraints on the operation of computer data banks containing information about individual Americans. Key contribution – that the challenges raised by computer-based personal-data record keeping should be examined broadly as important issues of social policy rather than as narrowly conceived questions of record-keeping technique and imaginative system design.

Recovery and Restart in a Real Time System, David A. Huemer, Vol. 11, No. 9, (September, 1973) p. 61.

Unfortunately, machines, human beings, communications facilities, and software are all fallible objects and, as a result, there is a need to carefully explore the areas of potential failure in any system which attempts to combine these elements.

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Management

A Funny Thing Happened on the Way to Progress by Ned W. Brenizer, Vol. 11, No. 4, (April, 1973) p. 20.

Logically, management (at all levels) cares little about what makes a computer function and, for the most part, the problems related to it. What they are interested in is results on a planned timely basis.

The Art of Suspending Judgement by Edward Marsh, Vol. 11, No. 5, (May, 1973) p. 23.

A wise practice for managers and subordinates alike – get all points of view before passing judgement on a personnel situation.

Computer Center Operation, Vincent J. Bannan and James H. Garrett, Jr., Vol. 11, No. 9, (September, 1973) p. 28.

The current laissez faire method of allowing operations to pick and choose what they will run and hope for the best, the absence of management control, evaluation, and measurement of this human side of the operations will pass away just as it passed away in the industrial era when time study and incentive plans first started.

Data Administration as the Nerve Center of a Company's Computer Activity by Richard A. Nerad, Vol. 11, No. 10, (October, 1973) p. 26.

The author identifies the logical starting point for the data administrator, covering current computer processing problems and the philosophy of the data administrator who is the individual performing the function of data administration.

Laws and Lore of Computerdom, Harvey Golub, Vol. 11, No. 9, (September, 1973) p. 79.

A humorous approach to resolving the problems that develop between the users and the data processing people.

Mediocrity in EDP by Richard Adelson, Vol. 11, No. 8, (August, 1973) p. 40.

A critique of EDP personnel management and suggestions for developing highly qualified employees.

Mobility of Data Processing Managers by Clifford Elliott, PhD, Vol. 11, No. 8, (August, 1973) p. 19.

Profile of 88 data processing managers in the Midwest as delineated in a recent study. For the majority, it was a pioneering effort – 10 to 15 years of self development in an emerging industry with no leadership models.

Optimizing Profits Through Standardization by Martin Freier, Vol. 11, No. 3, (March, 1973) p. 22.

Unlike most cost reduction methods, standardization is more psychologically palatable to personnel because, while its primary objective is also maximizing profit, the means used improve productivity through improved job performance, rather than a reduction in the work force.

Professional Performance by Robert K. Hamilton, Vol. 11, No. 7, (July, 1973) p. 30.

Simply stated, it's not what you do but, rather, how you do it that distinguishes the professional.

Protect or Perish, Ira S. Gottfried, Vol. 11, No. 9, (September, 1973) p. 23.

Both top management and DP executives are recognizing their responsibilities for protecting the company's investments in computer facilities, programs and data; as well as safeguarding DP personnel from injury.

Role of the Corporate EDP Consultant, Vol. 11, No. 1, (January, 1973) p. 34.

Like many other organizational changes brought about by the computer, the internal consultant has appeared on the edp scene. Although his function varies from company to company, a pattern of activities has become discernible.

So, YOU Want to be Part of Management by Leonard J. Hawkins, Vol. 11, No. 3, (March, 1973) p. 14.

You will be if you face up to your responsibilities! These include usefulness of reports, systems design, communication, accuracy, timeliness, economy, etc.

Microfilm Optical Character Reading

Copy Service Puts Computer Output on Microfilm, Vol. 11, No. 4, (April, 1973) p. 12.

Computer output microfilm, which can transfer between 200 and 500 pages per minute, is viewed as one resolution to the physical limitations of line printers of the information output bottleneck.

Personnel Training and Education

A Retired Programmer, Vol. 11, No. 12, (December, 1973) p. 42.

One "retired" programmer continues to learn, to be amazed and fascinated by his post-retirement work in a profession that produces challenges almost as quickly as it solves problems.

Career Planning & Education for Data Processors by Wm. D. Mathieson and Patrick S. E. Brown,

Vol. 11, No. 3, (March, 1973) p. 17.

The career problems of dp personnel are the same as those of any other professional group. Unfortunately, the development of the dp field has been identified with the machine, not the people.

Complex Role of the Systems Specialist by Donald L. Davis, CDP, and Clifford Elliott, PhD, Vol. 11, No. 3, (March, 1973) p. 19.

The edp professional, as a member of a relatively new professionally oriented group, is subject to greater uncertainties and stresses than are encountered in kindred professions such as engineering or accounting. A notable response to such stress is an increasing interest in the professional organization of the edp specialists.

Daily Functioning of the Blind Programmer by Patrick G. Byrne, Vol. 11, No. 1, (January, 1973) p. 10.

A blind programmer describes on-the-job functioning of the blind. Job interviewing the blind, braille printout, flowcharting and final documentation are some of the topics he details.

Integrating Skills in Data Processing Operations by Thomas V. Sobczak, Vol. 11, No. 11, (November, 1973) p. 18.

The analyst/programmer concept, when controlled properly, will represent a substantial improvement over the traditional separation of system analysis and programming, although there is the greater possibility of a lag in documentation when one individual is responsible for both functions.

Report on the Status of the Institute for Certification of Computer Personnel by Fred H. Harris and John K. Swearingen, Vol. 11, No. 10, (October, 1973) p. 18.

This final report of the organizing committee of the Computer Foundation was submitted by the committee's co-chairmen. The name of the foundation was changed to indicate the institute's primary mission--the pooling of resources and interests of individual societies in developing and recognizing qualified personnel.

Six Flags Chapter & Community Responsibility by Harry L. Brady, Vol. 11, No. 5, (May, 1973) p. 25.

Evaluating the data processing courses offered in the high schools in Dallas, this DPMA chapter found the schools lacking adequately trained edp instructors. A group of members, working with the schools, developed a program which ultimately was accredited as a three-hour course.

Wanted: A Future! by Eleanor H. Irvine, BA, LLB, Vol. 11, No. 6, (June, 1973) p. 22.

Another pioneer in the EDP industry appraises the future potential for data processing managers and suggests guidelines for their career planning. She points out the assets the data processing manager has because of his technical expertise and also the weaknesses he suffers, due to the isolation of his technical experience. Her comments undoubtedly will provoke many readers.

Programming, Software & Documentation

Benefits of Data Base by Jerome E. Dyba, Vol. 11, No. 3, (March, 1973) p. 31.

Two major benefits of data base software are capability and flexibility – the tools "we need in our environment of continued growth to allow us to keep current with the constant changes required."

Impact of Virtual Memory on Systems Design and Installation, Herbert E. Cotter, Vol. 11, No. 9, (September, 1973) p. 47.

Virtual storage systems provide a basis for additional enhancements to operating systems. It is another step in the evolution of data processing.

Jonathan Livingston Programmer by David W. Penner, Vol. 11, No. 12, (December, 1973) p. 22.

A parody of the current bestseller, Jonathan Livingston Seagull, relates the thoughts of a programmer seeking the best of all possible worlds in computer programming.

No Visible Means of Support – Dilemma of the Minicomputer Buyer by Jerrold Asher, Vol. 11, No. 3, (March, 1973) p. 33.

Most minicomputers, the author contends, are simply delivered. Systems support, software, and other forms of customer "handholding" are left out.

Perspective/Software Taxation, Vol. 11, No. 3, (March, 1973) p. 36.

DPMA's position on taxation of software legislation now pending in California and scheduled to become law on March 15.

The Right Way to Implement COBOL Programs by Joseph Sider, Vol. 11, No. 10, (October, 1973) p. 22.

Three general ingredients are necessary before any program can be properly implemented--division of work, cataloging of experiences, and a professional manner in solving programming errors.

Single-industry Oriented Applications,Vol. 11, No. 5, (May, 1973) p. 21.

A group of insurance companies collectively analyzed their application needs and developed efficient software economically.

The Wrong Way to Implement a Cobol Program by Joseph Sider, Vol. 11, No. 8, (August, 1973) p. 37.

First in a series of articles to show programmers how to improve, and more importantly, to show data processing managers what to look for and how to guide their people into being productive.

Systems Design & Control

A Bank Manager's Guide to Computer Models by George Cowles, Vol. 11, No. 7, (July, 1973) p. 30.

It is incumbent upon managers and modelers to understand what models are, what they are for, and what part they play in the management process.

Accounting Implications of an Advanced Computer System by Jack F. Thorne, PhD, CPA, Vol. 11, No. 2, (February, 1973) p. 17.

Much has been written about computer systems and their impact on accounting and auditing, but the potential contribution the data processing manager can make in these areas, particularly in the advanced computer system, has been largely ignored, according to this practicing consultant.

An Application of a Data Base System, Raymond Hollenback, Vol. 11, No. 9, (September, 1973) p. 68.

Some of the issues on which the decision to proceed into the data base environment ultimately hinges are explained from an applications point of view and then from a planning point of view.

Automating the Payment of Real Property Taxes by Harry C. Burch, CDP, Vol. 11, No. 8, (August, 1973) p. 22.

Mortgage holders whose lenders have automated payment of real estate taxes can gain some insight about that system. Another aspect of the cashless, checkless society.

Computer Aided Data Processing Management by James A. Campise, PE, CDP, Vol. 11, No. 11, (November, 1973) p. 12.

Many data processing managers claim that the problem of cost measurement cannot be solved and argue that data processing costs cannot be controlled in the same way other costs are controlled. While their problems will not be solved quickly, they must be studied and partial solutions developed. In most cases no attempt, or an inadequate attempt, is made to identify, measure, or control many of the costs. The author describes some approaches to coping with hidden costs.

Computer Diseases and Cures by Ralph C. McCollum, Vol. 11, No. 7, (July, 1973) p. 26.

When data processing is properly planned and the "diseases" are controlled, fear of the computer will disappear. The computer will then achieve its rightful place as a productive, manageable "genie" of the future.

Computer in the World of Autos, Vol. 11, No. 12, (December, 1973) p. 27.

General Motors' Pontiac Motor Division has implemented a nation wide TRACE computer system for providing production-delivery status reports on customer new car orders.

Computer Saves Time and Money in Costing Labor Agreement by Thomas F. McGillicuddy, Vol. 11, No. 12, (December, 1973) p. 20.

In recently concluded negotiations at the Industrial Truck Division, Allis-Chalmers Corp., the management negotiating team successfully used a computer program to transform simple input data reflecting wage increases and increased benefit costs into a meaningful per-hour cost figure and conserved negotiation expenses considerably.

Computer Theft History: Case of the 6 Second Tape, Vol. 11, No. 8, (August, 1973) p. 41.

The case involving two competitive California firms set several precedents in computer law.

Data Communications: Operational Support, Marvin J. Zollner, Vol. 11, No. 9, (September, 1973) p. 45.

Technical support of field forces not only reduces the customer's downtime by many hours, it also reduces our maintenance hours and saves money.

Data Communications: Planning, John Pries, Vol. 11, No. 9, (September, 1973) p. 44.

Seven key points to consider when designing a communications system are: defining the function, determining distribution of data, volume of data, urgency, most suitable language form, accuracy requirements and costs.

Data Pollution: Are You Guilty? by Raymond Spurr, Vol. 11, No. 8, (August, 1973) p. 32.

If you do not design your systems to cope with the situations as they exist, you will continue to collect and feed polluted data to your systems.

Data Processing and the Auditor by Karl G. King III, CDP, CPA, and William R. Welke, PhD, CPA, Vol. 11, No. 2, (February, 1973) p. 31.

As data processors acquire a better understanding of the auditor's responsibilities, tasks, and needs, they will be equipped to assist the auditor in the efficient use of the computer as an audit tool. With greater cooperation between these two groups the role of each will be enhanced and the disruptions minimized.

Data Resource Management by Charles Bontempo, Vol. 11, No. 2, (February, 1973) p. 31.

The data element directory concept is recom-

mended as a management tool for monitoring, controlling and planning the utilization of data as a system resource. It can serve as a viable and even preferred alternative to other data management approaches, and can be used to develop evidence that is important in determining whether a data base management system is required for a particular environment.

Equitable Machine Cost Accounting in a Multi-Programming Environment by Donald Jacobs, Vol. 11, No. 9, (November, 1973) p. 21.

The multi-programming environment destroys the validity of elapsed time as an accounting measure; requires that other less dependable criteria be used to assess user costs; and discourages good programming practices because of loopholes in cost accounting criteria. A new measure of time, step time, assures equitable cost assessment and encourages good programming techniques in a multi-programming environment.

The Evolution of Systems (Information Systems Architecture) by Bruce E. Spiro, Vol. 11, No. 12, (December, 1973) p. 10.

The significant distinctions between systems architecture and systems design are that: architecture deals with what might be, what it is most effective to do, and what the system could look like while design deals with what will be done and what the systems do look like.

File Structures and Operations, Richard L. Szatkowski, Vol. 11, No. 9, (September, 1973) p. 74.

File structures in data bases are offsprings of sequential, random and listing techniques which have been on the scene for a decade or more. However, our concept of the "file" is changing.

Illinois' University Uses 'Open' Management Information Systems by Joseph E. Butler, Vol. 11, No. 10, (October, 1973) p. 24.

Governors States University has a management information system which is a pioneering effort in that it is not just the province of trained data processing personnel but is available to anyone with data, be he student, clerk, administrator, teacher or president of the university.

The Ins and Outs of Real-Time Design by Harvey M. Weiss, CDP, Vol. 11, No. 4, (April, 1973) p. 15.

Complex as it may appear, the system designer can make his project considerably easier by separating the real-time design effort into functional areas with the thought of tying them together logically.

Is the Post Audit Necessary? by Christopher Burpo, Vol. 11, No. 12, (December, 1973) p. 14.

The purpose of the post audit is not to second guess management but to keep avoidable mistakes from repeating themselves.

Key Evaluation & Planning Factors for a Data Base Environment, Kenneth W. Finn, Vol. 11, No. 9, (September, 1973) p. 71.

The data base planning group is somewhat the hub of an organized approach to planning the data base environment. Basically, this group gets its charter from management who provide it with various planning guidelines, general requirements, priorities, organizational goals, and some level of commitment.

Matrix for Information and Decision System by Gad J. Selig, Vol. 11, No. 5, (May, 1973) p. 18.

Economic criteria should not always be the dominant factor in the selection of new systems applications. Many times, it is extremely difficult to tangibly justify new systems on that basis alone. Other criteria which must be considered include: qualitative criteria, imposed criteria, emotional criteria and quantitative criteria.

Simulation: An Overview and Evaluation by Leslie W. Rue, Vol. 11, No. 12, (December, 1973) p. 18.

The overall objective of most simulation experiments is to gain a better understanding of the behavioral dynamics of the system. The better understanding is desire to design a more effective system and to exercise more effective control over the system.

Some Systems Shouldn't Use Chained File Techniques, William R. Charles, Vol. 11, No. 9, (September, 1973) p. 33.

To the uninitiated, it might appear that every company should be able to solve all of its information systems problems by the installation of a data base management system, whose innate magic will, at long last, transform EDP into the role that has been predicted for it: a company-wide tool for solving day-to-day, and long-range business problems.

SPEED: International Harvester's Real Time, On-Line Order Entry System, George L. Davisson and Larry J. Roberts, Vol. 11, No. 9, (September, 1973) p. 52.

A unique system allows International Harvester dealers to telephone their IH parts depot and in seconds know the inventory of any service part in the nationwide IH depot system.

System design Consideration for Production Management and Control by Lelya L. Mansfield, Vol. 11, No. 4, (April, 1973) p. 27.

A common sense approach to system design which involves the user groups and the production systems management group in the analysis and design phase, and in the development, testing and implementation phases of the system.

Systems of Computers: Dispersal of Computing Power by Nathan Grier Parke III, Vol. 11, No. 1, (January, 1973) p. 14.

A distributed computer system can be made to

match the organizational distribution of people and task. In addition, a distributed computer system with its communication capability provides a natural set of windows for monitoring the operation at all management levels.

Use of Shared Data Files, Keene A. Bridgeman, Vol. 11, No. 9, (September, 1973) p. 78.

The purpose of using shared data files may be stated in terms of several economies: reduces replicated data; assures using common data which reduces the chance for errors; requires less manpower to manage the data; auditability of the data is easier and eliminates redundant programs for editing and updating.

Time Sharing, Communications & Teleprocessing

Allstate's On Line Data Entry, James E. Brownell, Vol. 11, No. 9, (September, 1973) p. 84.

Teleprocessing is treated as a logical extension of the computer and systems designs as Allstate Insurance Co. plans their application needs for the seventies.

Better Cost-Effectiveness at Computing Facilities through Better User Communications and Services by James B. Dolkas, Vol. 11, No. 11, (November, 1973) p. 26.

Computer user communications, perhaps the most exacting demand of any technical discipline, is an art. Through professional techniques, methods, and procedures, not only more effective communication can be achieved, but a decided improvement in computer installation cost-effectiveness results.

Continental's On Line Data Entry, Rick Fabing, Vol. 11, No. 9, (September, 1973) p. 85.

Plan an open-ended system that will support the rapid growth of teleprocessing.

Data Communications: What About Tomorrow, Richard Beal, Vol. 11, No. 9, (September, 1973) p. 46.

The environment of data planners demands those products and services which perform to their changing communications needs in a highly reliable fashion.

Integon's On Line Policy Data Entry, Darryl R. Martin, Vol. 11, No. 9, (September, 1973) p. 87.

The Author takes the viewpoint of telecommunications application from the user's standpoint rather than from the technical or data processing point of view; an in-house data input system which could be adapted to a more elaborate decentralized telecommunications system.

Security for Teleprinters and Data Communications by George E. Goode, Vol. 11, No. 1, (January, 1973) p. 21.

With a greater dependence on modern telecommunication and teleprocessing to conduct its daily business, the typical corporation has become increasingly vulnerable to compromise of its confidential information by means of tapping, monitoring and active penetration. Progressive firms are finding more efficient ways to operate their vital telecommunication networks through computer switching and shared or multiplexed links.

General Interest

A Computerized Skyjack Deterrent by Stephen A. Kallis, Jr., Vol. 11, No. 7, (July, 1973) p. 40.

With control of a skyjacked aircraft beyond the influence of the pilot, skyjacking would prove to be pointless and would hopefully lose importance as the social menace it has become.

AFIPS/An Inside View via an Interview with George Glaser, Vol. 11, No. 11, (November, 1973) p. 30.

The president of the American Federation of Information Processing Societies expands on the purposes, the objectives, the goals, and the achievements of AFIPS, to provide DPMA's membership with a fuller appreciation of the organization.

AFIPS/An Inside View via An Interview with George Glaser (Part II), Vol. 11, No. 12, (December, 1973) p. 24.

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An Interview with DPMA's Computer Sciences Man of the Year by Helen M. Milecki, Vol. 11, No. 6, (June, 1973) p. 14.

A pioneer in the EDP industry, Dr. Carl Hammer, Univac's director of computer sciences, offers sage advice to each and every person involved in the EDP industry, as well as to the general public. The power generated by the EDP community, he cautions, is a power inconceivable to the human mind! . . . Harnessing that power is the greatest challenge mankind has ever faced! An enormous responsibility for the EDP community, a responsibility not many are aware of.

An Interview with International President, James B. Sutton by Helen M. Milecki, Vol. 11, No. 8, (August, 1973) p. 24.

Having served on the executive council for five years, Jim is well aware of the Association's critical position. He accepts the challenge with great enthusiasm.

Anatomy of a Business Report by William E. Spaulding, PhD.,Vol. 11, No. 7, (July, 1973) p. 16.

Of critical importance to information systems personnel is the ability to make effective verbal and written presentations. Since there is no single "best" approach, the author discusses the structure and logic of the written presentation.

Code of Conduct and Good Practice Adopted for and by CDP Holders, Vol. 11, No. 6, (June, 1973) p. 26.

The certification council, at its last meeting, passed these two sets of codes; the first such codes to be adopted by a practicing data processing group in North America. This is the first serious attempt to define, in some depth, acceptable conduct by practicing data processors which include procedures for enforcing adherence to the code. They first appear in Data Management as the official announcement of their adoption, and to invite constructive comment.

Computer Foundation, Vol. 11, No. 3, (March, 1973) p. 34.

A group of ten edp organizations gathered for the "information" meeting held in January.

Data Processing: 1973 + 10 Years by James A. Campise, CDP, Vol. 11, No. 5 (May, 1973) p. 13.

The impact of the "computer on a chip" (stage three in the industrial revolution) will dramatically change the character of the jobs in data processing. The period from 1973-1983 will be user-oriented, however, greatly expanded into the psychological and sociological aspects of using computers.

Hartford (Conn.) Chapter Surveys Membership, Vol. 11, No. 5, (May, 1973) p. 27.

This survey reveals some interesting insights about the profile and the interests of that chapter's members.

Is There Really a Paper Pinch? by John H. Walker, Vol. 11, No. 7, (July, 1973) p. 14.

Paper manufacturers and paper industry associations agree that there is a paper shortage, and explain how it evolved.

Legal Syntax Analysis of Computer Lease Contracts by Phillip J. Scaletta, Jr., JD, and Joseph L. Walsh, Vol. 11, No. 1, (January, 1973) p. 27.

Part four of a series comparing provisions of computer purchase and lease contracts and the requirements of the Government Services Administration.

Legal Syntax Analysis of Computer Lease Contracts by Phillip J. Scaletta, Jr., JD, and Joseph L. Walsh, Vol. 11, No. 2, (February, 1973) p. 21.

Part five of a series comparing provisions of computer purchase and lease contracts and the requirements of the Government Services Administration.

One Man's Successful Campaign for Standardizing Accounting Practices, Vol. 11, No. 3, (March, 1973) p. 30.

Views of the chairman of the board of Arthur Andersen Company, largest accounting firm in the world.

Selling the System by Robert E. Deslauriers, Vol. 11, No. 7, (July, 1973) p. 21.

Taking up another aspect of communication, the author discusses the structure and logic of the verbal presentation – for the technically oriented and the nontechnically oriented audience.

Special Report on ANSI X3 Computer Committee by Ardyn E. Dubnow, Vol. 11, No. 4, (April, 1973) p. 18.

DPMA's representative on the ANSI X3 computer committee reports on events that have transpired recently.

Storing, Analysis and Reporting of the CDP Examination, Vol. 11, No. 2, (February, 1973) p. 11.

A detailed discussion explaining the performance rating on the CDP examination.

Three Decades of Computer Usage in Perspective by Jerome Kanter, Vol. 11, No. 11, (November, 1973) p. 34.

The third decade belongs to the businessman and to management, as the first belonged to the engineer, and the second to the marketeer. Although this outlook shows increasing maturity in a rapidly growing and changing industry, it should not be used to stifle product innovation and expansion. With the proper perspective, computers can begin to fulfill the prophecy--that ultimately they will have had as profound an impact on mankind as the invention of writing.

The World of EDP Standards and How You Can Become Involved by Ardyn F Dubnow, Vol. 11, No. 7, (July, 1973) p. 23.

In this summary report on recent activities, the author, DPMA's representative on the ANSI Computer Standards Committee, urges DPMA members to contribute their experience and knowledge by serving on the various committees in need of their expertise.

Articles Listed By Authors Names

Adelson, Richard, Mediocrity in EDP, Vol. 11, No. 8, (August, 1973) p. 40.

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